

Symbol	Typ	Titel
B	Sektion	PERFORMING OPERATIONS; TRANSPORTING
B61	Klasse	RAILWAYS
B61F	Unterklasse	RAIL VEHICLE SUSPENSIONS, e.g. UNDERFRAMES, BOGIES, ARRANGEMENTS OF WHEEL AXLES; RAIL VEHICLES FOR USE ON TRACKS OF DIFFERENT WIDTH; PREVENTING DERAILING; WHEELS GUARDS; OBSTRUCTION REMOVERS OR THE LIKE (for vehicles in general B60; axles, wheels B60B; vehicle tyres B60C)
B61F 1/00	Hauptgruppe	Underframes (making railway vehicle underframes by forging or pressing B21K 7/12)
B61F 1/02	1-Punkt Untergruppe	. with a single central sill
B61F 1/04	1-Punkt Untergruppe	. of triangulated type
B61F 1/06	1-Punkt Untergruppe	. specially adapted for locomotives or motor-driven railcars
B61F 1/08	1-Punkt Untergruppe	. Details
B61F 1/10	2-Punkt Untergruppe	. . End constructions
B61F 1/12	2-Punkt Untergruppe	. . Cross bearers
B61F 1/14	2-Punkt Untergruppe	. . Attaching or supporting vehicle body structure
B61F 3/00	Hauptgruppe	Types of bogies (B61F 5/00 takes precedence)
B61F 3/02	1-Punkt Untergruppe	. with more than one axle
B61F 3/04	2-Punkt Untergruppe	. . with driven axles or wheels
B61F 3/06	3-Punkt Untergruppe	. . . with three or more axles
B61F 3/08	2-Punkt Untergruppe	. . without driven axles or wheels
B61F 3/10	3-Punkt Untergruppe	. . . with three or more axles
B61F 3/12	1-Punkt Untergruppe	. specially modified for carrying adjacent vehicle bodies of articulated trains
B61F 3/14	1-Punkt Untergruppe	. specially modified for reducing air resistance
B61F 3/16	1-Punkt Untergruppe	. with a separate axle for each wheel
B61F 5/00	Hauptgruppe	Constructional details of bogies; Connections between bogies and vehicle underframes; Arrangements or devices for adjusting or allowing self-adjustment of wheel axles or bogies when rounding curves
B61F 5/02	1-Punkt Untergruppe	. Arrangements permitting limited transverse relative movements between vehicle underframe or bolster and bogie; Connections between underframes and bogies
B61F 5/04	2-Punkt Untergruppe	. . Bolster supports or mountings (side bearings B61F 5/14)
B61F 5/06	3-Punkt Untergruppe	. . . incorporating metal springs
B61F 5/08	3-Punkt Untergruppe	. . . incorporating rubber springs
B61F 5/10	3-Punkt Untergruppe	. . . incorporating fluid springs
B61F 5/12	3-Punkt Untergruppe	. . . incorporating dampers
B61F 5/14	2-Punkt Untergruppe	. . Side bearings
B61F 5/16	2-Punkt Untergruppe	. . Centre bearings or other swivel connections between underframes and bolsters or bogies

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B61F 5/18	3-Punkt Untergruppe	. . . King-bolts
B61F 5/20	3-Punkt Untergruppe	. . . with springs allowing transverse movements
B61F 5/22	2-Punkt Untergruppe	. . Guiding of the vehicle underframes with respect to the bogies
B61F 5/24	3-Punkt Untergruppe	. . . Means for damping or minimising the canting, skewing, pitching, or plunging movements of the underframes
B61F 5/26	1-Punkt Untergruppe	. Mounting or securing axle-boxes in vehicle or bogie underframes
B61F 5/28	2-Punkt Untergruppe	. . Axle-boxes integral with, or directly secured to, vehicle or bogie underframes
B61F 5/30	2-Punkt Untergruppe	. . Axle-boxes mounted for movement under spring control in vehicle or bogie underframes
B61F 5/32	3-Punkt Untergruppe	. . . Guides, e.g. plates, for axle-boxes
B61F 5/34	4-Punkt Untergruppe	 Wedge mechanisms for adjusting clearance between underframes and axles
B61F 5/36	3-Punkt Untergruppe	. . . Arrangements for equalising or adjusting the load on wheels or springs, e.g. yokes
B61F 5/38	1-Punkt Untergruppe	. Arrangements or devices for adjusting or allowing self-adjustment of wheel axles or bogies when rounding curves, e.g. sliding axles, swinging axles
B61F 5/40	2-Punkt Untergruppe	. . Bogies with side frames mounted for longitudinal relative movements
B61F 5/42	2-Punkt Untergruppe	. . Adjustment controlled by buffer or coupling gear
B61F 5/44	2-Punkt Untergruppe	. . Adjustment controlled by movements of vehicle body
B61F 5/46	2-Punkt Untergruppe	. . Adjustment controlled by a sliding axle under the same vehicle underframe
B61F 5/48	2-Punkt Untergruppe	. . Trailing or leading bogies for locomotives or motor-driven railcars (B61F 5/40 takes precedence) [2]
B61F 5/50	1-Punkt Untergruppe	. Other details
B61F 5/52	2-Punkt Untergruppe	. . Bogie frames
B61F 7/00	Hauptgruppe	Rail vehicles equipped for use on tracks of different width
B61F 9/00	Hauptgruppe	Rail vehicles characterised by means for preventing derailing, e.g. by use of guide wheels
B61F 11/00	Hauptgruppe	Rail vehicles characterised by rail-engaging elements other than wheels, e.g. balls
B61F 13/00	Hauptgruppe	Rail vehicles characterised by wheel arrangements, not otherwise provided for
B61F 15/00	Hauptgruppe	Axle-boxes (mounting or securing axle-boxes B61F 5/26; lubrication B61F 17/00; bearings in general F16C)
B61F 15/02	1-Punkt Untergruppe	. with journal bearings
B61F 15/04	2-Punkt Untergruppe	. . for locomotives
B61F 15/06	2-Punkt Untergruppe	. . for cars
B61F 15/08	2-Punkt Untergruppe	. . the axle being slidable or tiltable in the bearings
B61F 15/10	3-Punkt Untergruppe	. . . and having springs opposing such movements
B61F 15/12	1-Punkt Untergruppe	. with roller, needle, or ball bearings
B61F 15/14	2-Punkt Untergruppe	. . constructed for taking-up axial pressure
B61F 15/16	2-Punkt Untergruppe	. . the axle being slidable or tiltable in the bearings
B61F 15/18	3-Punkt Untergruppe	. . . and having springs opposing such movements

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B61F 15/20	1-Punkt Untergruppe	. Details
B61F 15/22	2-Punkt Untergruppe	. . Sealing means preventing entrance of dust or leakage of oil
B61F 15/24	3-Punkt Untergruppe	. . . preventing oil leakage when vehicle is tilted or inverted
B61F 15/26	2-Punkt Untergruppe	. . Covers; Sealing thereof
B61F 15/28	2-Punkt Untergruppe	. . Axle-boxes modified to ensure electrical conductivity
B61F 17/00	Hauptgruppe	Lubrication specially adapted for axle-boxes of rail vehicles (lubrication in general F16N)
B61F 17/02	1-Punkt Untergruppe	. with oil
B61F 17/04	2-Punkt Untergruppe	. . Lubrication by stationary devices
B61F 17/06	3-Punkt Untergruppe	. . . by means of a wick or the like
B61F 17/08	4-Punkt Untergruppe	 Devices for pressing the wick or the like against the rotating axle
B61F 17/10	3-Punkt Untergruppe	. . . by means of an oil bath
B61F 17/12	3-Punkt Untergruppe	. . . by gravity
B61F 17/14	2-Punkt Untergruppe	. . Rotating lubricating devices
B61F 17/16	3-Punkt Untergruppe	. . . with rings
B61F 17/18	3-Punkt Untergruppe	. . . with chains
B61F 17/20	3-Punkt Untergruppe	. . . with scoops or the like attached to, or coupled with, the axle
B61F 17/22	3-Punkt Untergruppe	. . . with discs, rollers, or belts engaging the axle
B61F 17/24	2-Punkt Untergruppe	. . by built-in lubricating pumps
B61F 17/26	2-Punkt Untergruppe	. . by external feeding means, e.g. pneumatic devices
B61F 17/28	2-Punkt Untergruppe	. . Applications of oil cleaners not otherwise provided for
B61F 17/30	1-Punkt Untergruppe	. with grease
B61F 17/32	2-Punkt Untergruppe	. . by manually-operated lubricators, e.g. screw cups
B61F 17/34	2-Punkt Untergruppe	. . by automatic means, e.g. with spring action
B61F 17/36	1-Punkt Untergruppe	. with other, e.g. mixed, lubricating agents
B61F 19/00	Hauptgruppe	Wheel guards; Bumpers; Obstruction removers or the like (for vehicles in general B60R 19/00)
B61F 19/02	1-Punkt Untergruppe	. Wheel guards
B61F 19/04	1-Punkt Untergruppe	. Bumpers or like collision guards
B61F 19/06	1-Punkt Untergruppe	. Nets, catchers, or the like for catching obstacles or removing them from the track (mailbag catchers B61K 1/02)
B61F 19/08	2-Punkt Untergruppe	. . of the drop-down type
B61F 19/10	3-Punkt Untergruppe	. . . automatically operated by engagement with obstacle